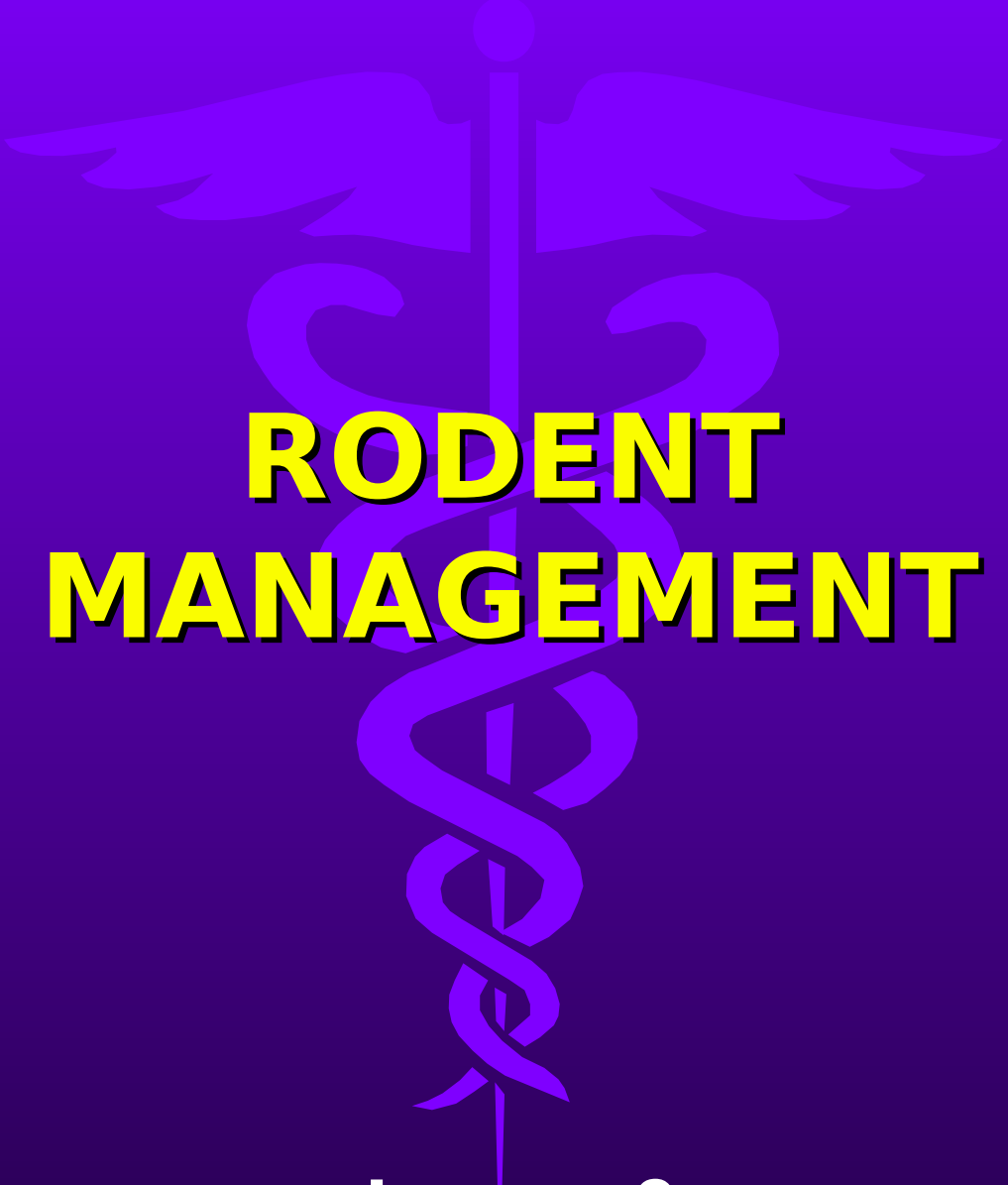
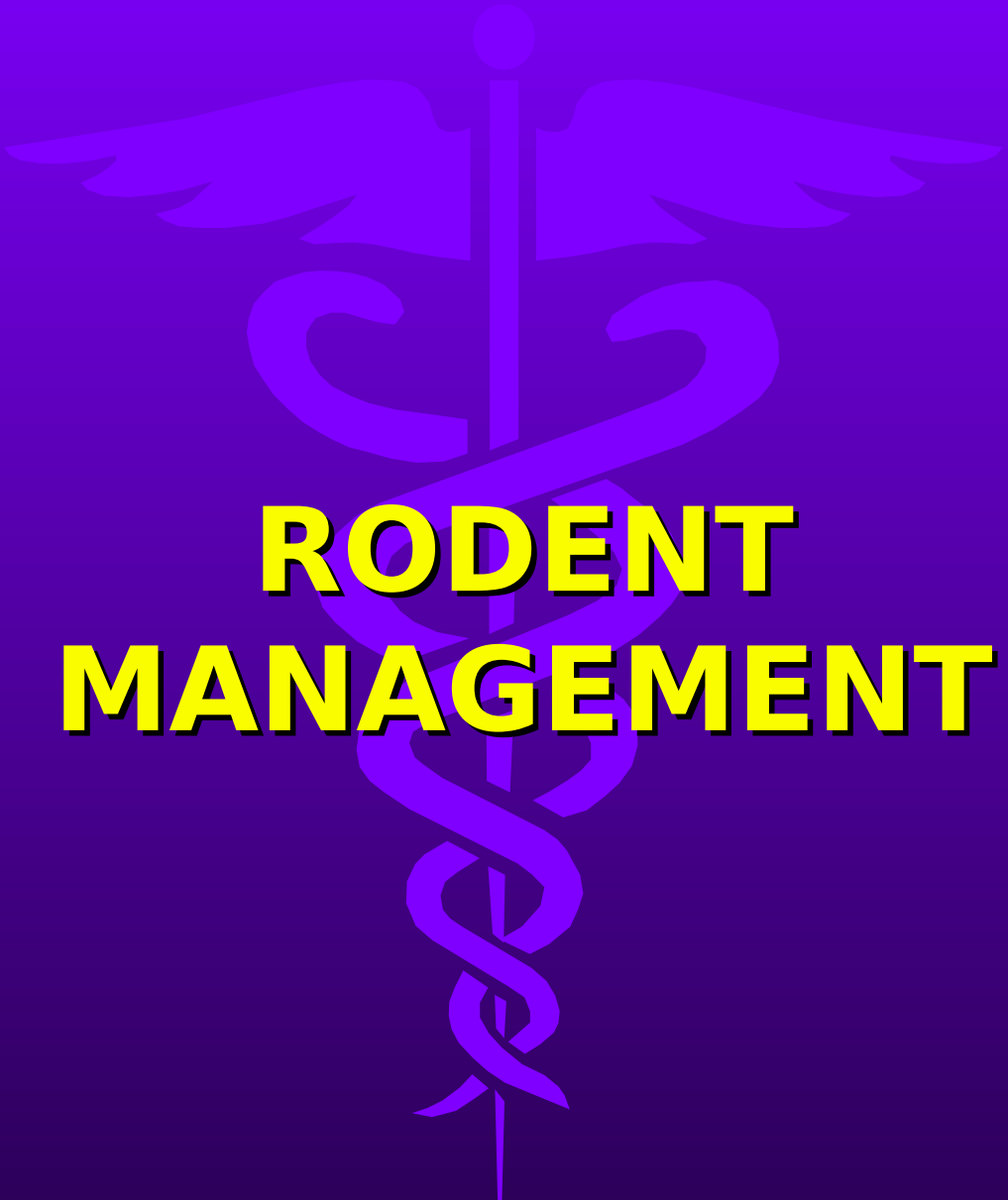


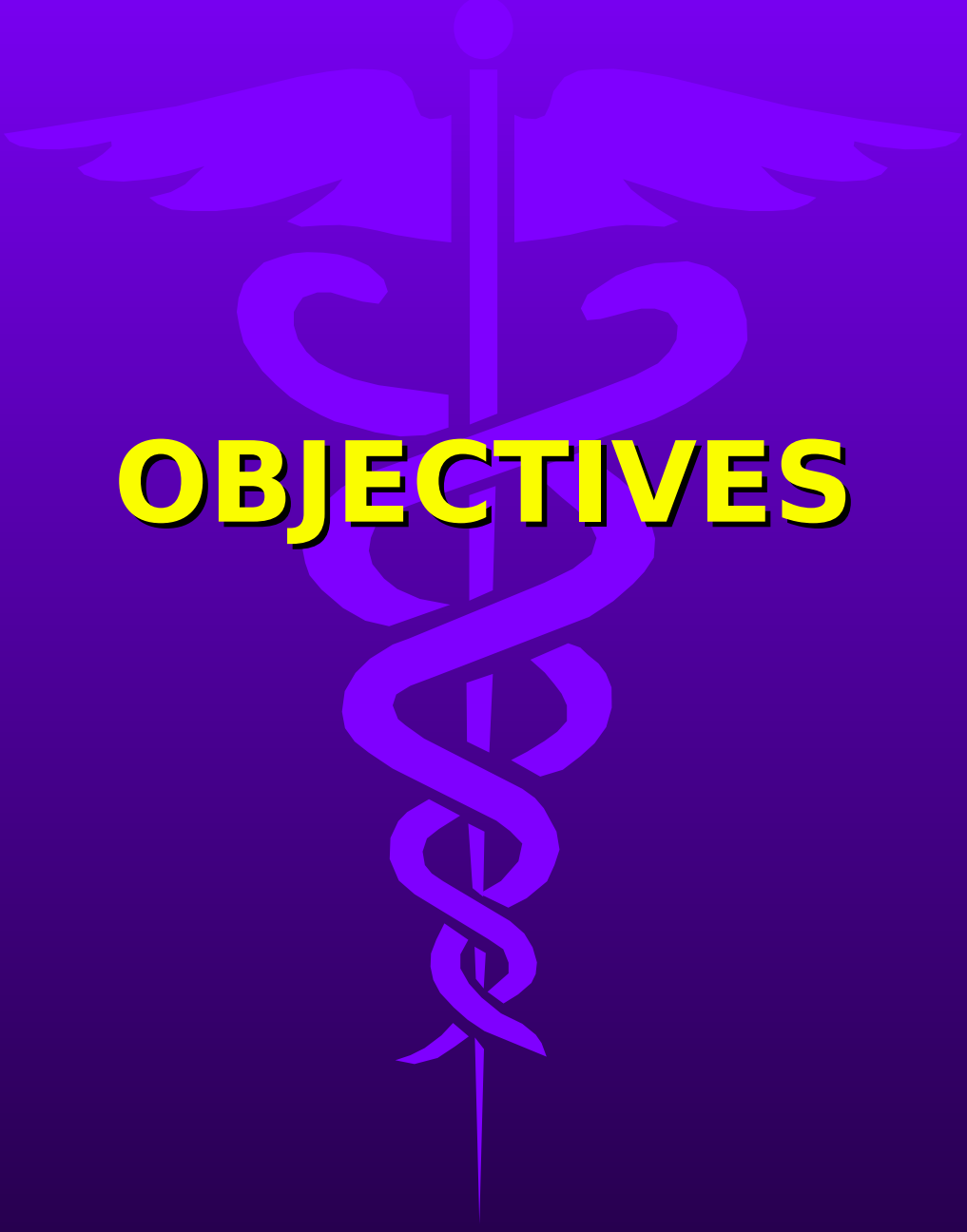


RODENT MANAGEMENT

Lesson 9



RODENT MANAGEMENT



OBJECTIVES

DEFINITION OF RODENTS

**Rodents are a large
group of mammals who
belong to the order
Rodentia**

THE TERM “RODENTS”

Animal Order Rodentia

- **Rodents commonly have two sets of chisel-like incisor teeth and no canine teeth**
- **The strong incisors are separated from the molars by a decided gap**

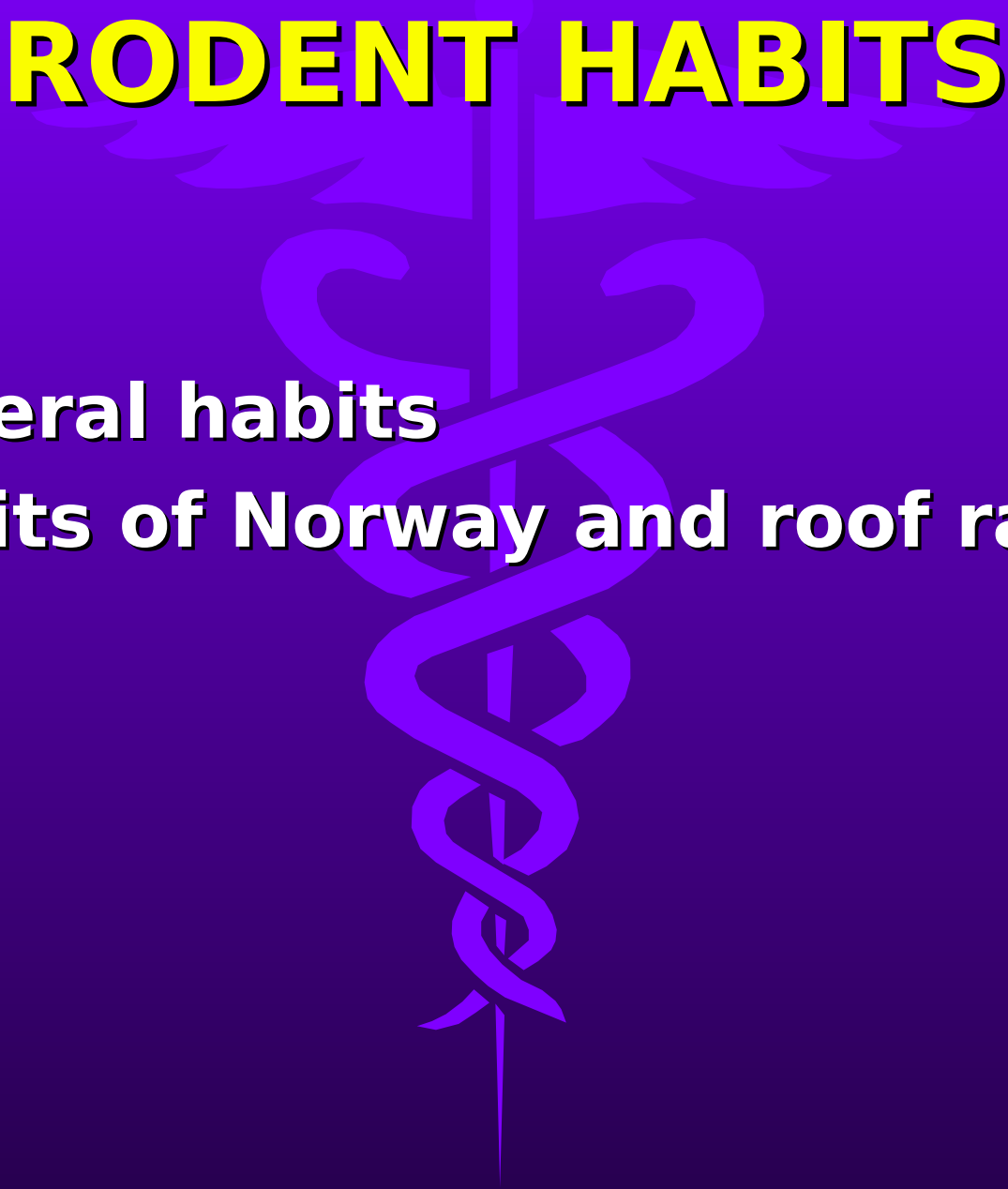
THE TERM “RODENTS”

Animal Order Rodentia

- **Domestic rats and mice will eat almost any available food**
- **Man’s indifference to basic sanitation has kept rodent populations in close proximity to his home and work, hence the term “domestic” rodents**



RODENT HABITS



- **General habits**
- **Habits of Norway and roof rats**

NORWAY RAT (RATTUS NORVEGICUS)

- **Generally found in temperate regions**
- **Associates themselves with man for basic food requirements**
- **Life span is about 1 year**
- **Gestation period is 22 days**
- **Roams 100-150 feet for food**
- **burrows in the ground**



IN SIX MONTHS ONE PAIR OF RATS WILL:

- **Eat about 27 lbs. of food**
- **Void about 25,000 droppings and urinate about 1 1/2 gals. of urine**
- **Shed about 1,000,000 hairs**

THE NORWAY RAT

Physical characteristics:

- **Tail is shorter than the head and body**
- **Body is thick with a blunt nose**
- **Adult weighs about 16 ounces**
- **Eyes and ears are small**
- **Strongest of the domestic rats**

THE ROOF RAT (RATTUS RATTUS)

- **Normally found in tropical and subtropical regions**
- **Associates with man for food**
- **Life span is about 1 year**
- **Gestation period is 22 days**
- **Roams 100-150 feet for food**
- **Found in attics, between walls, and may also nest in trees**

THE ROOF RAT

Physical

characteristics:

- **Tail is longer than the head and body**
- **Slender body with pointed nose**
- **Adult weighs 8-12 ounces**
- **Eyes and ears are large**
- **Prefers vegetables, fruits, and grains**

NORWAY & ROOF RAT

1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8

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1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8

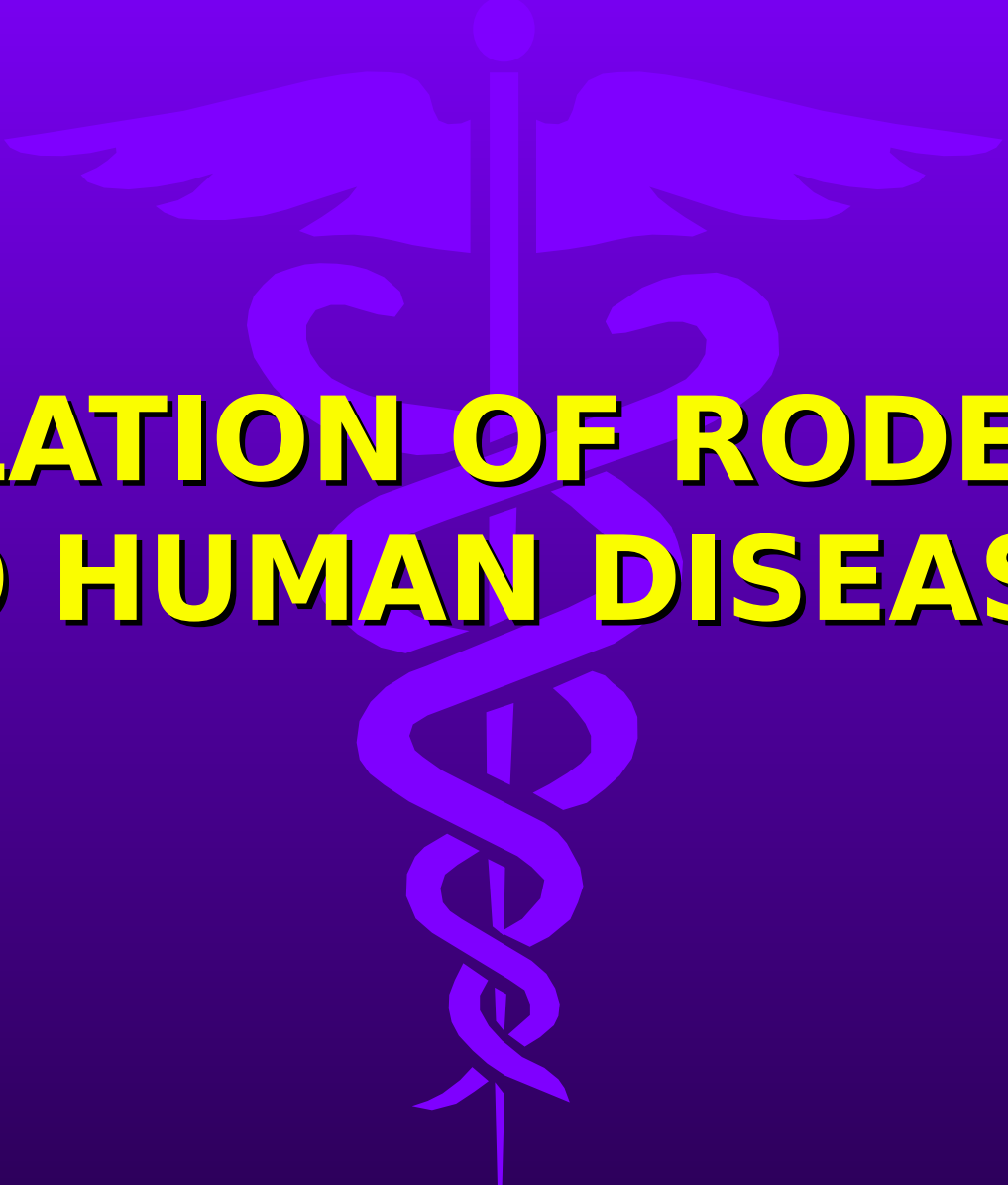
HOUSE MOUSE (MUS MUSCULUS)

- **Adaptable to a variety of living conditions**
- **Found throughout the world in close proximity to man**
- **Life span is about 1 year**
- **Gestation period is 19 days**
- **roams 50 feet for food**
- **Nests in houses and buildings**

THE HOUSE MOUSE

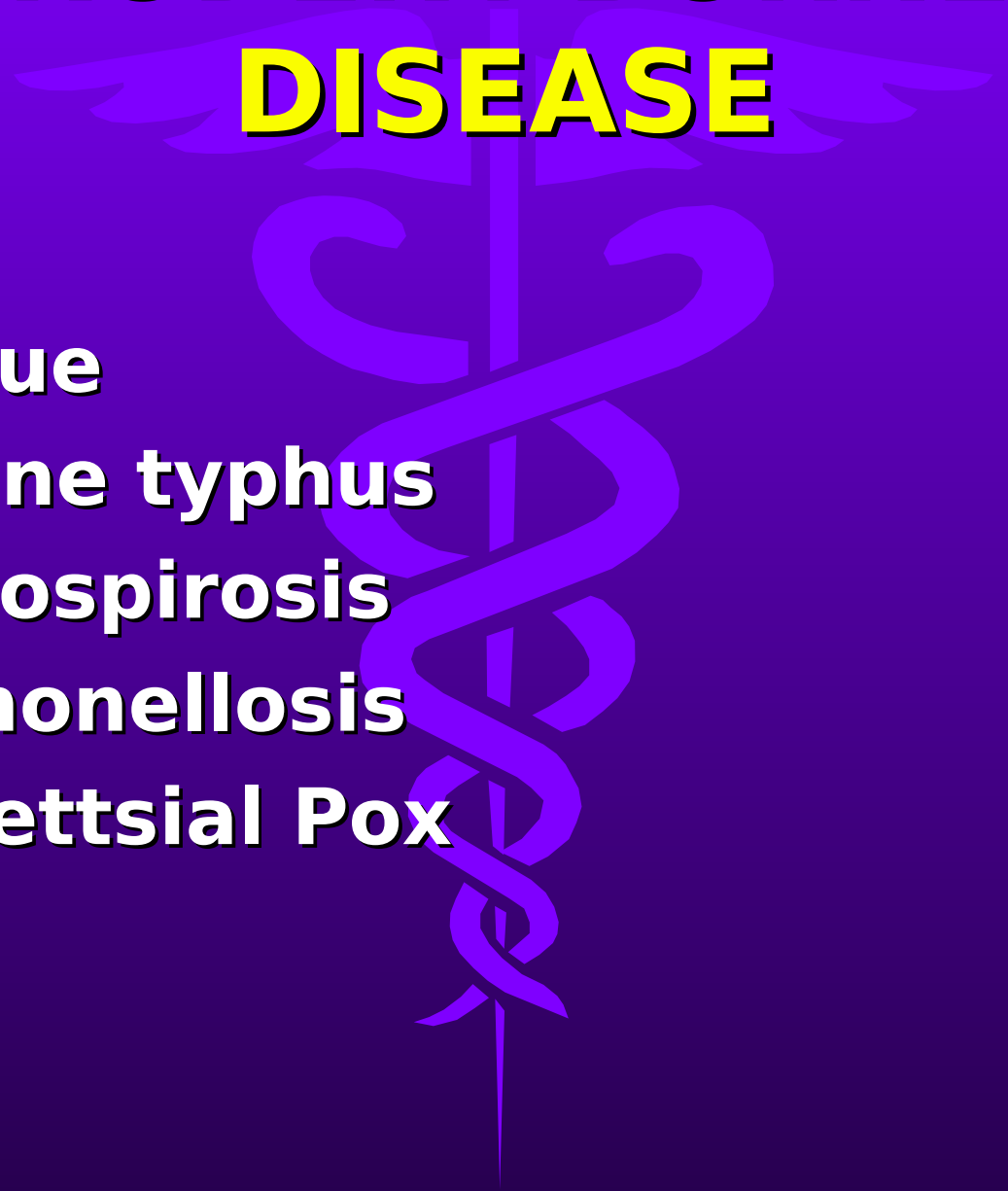
Physical characteristics:

- **Tail is as long as the head and body**
- **Small body with pointed nose**
- **Adult weighs 1/2 to 3/4 ounces**
- **Ears are large for the body size**
- **Eyes are small**



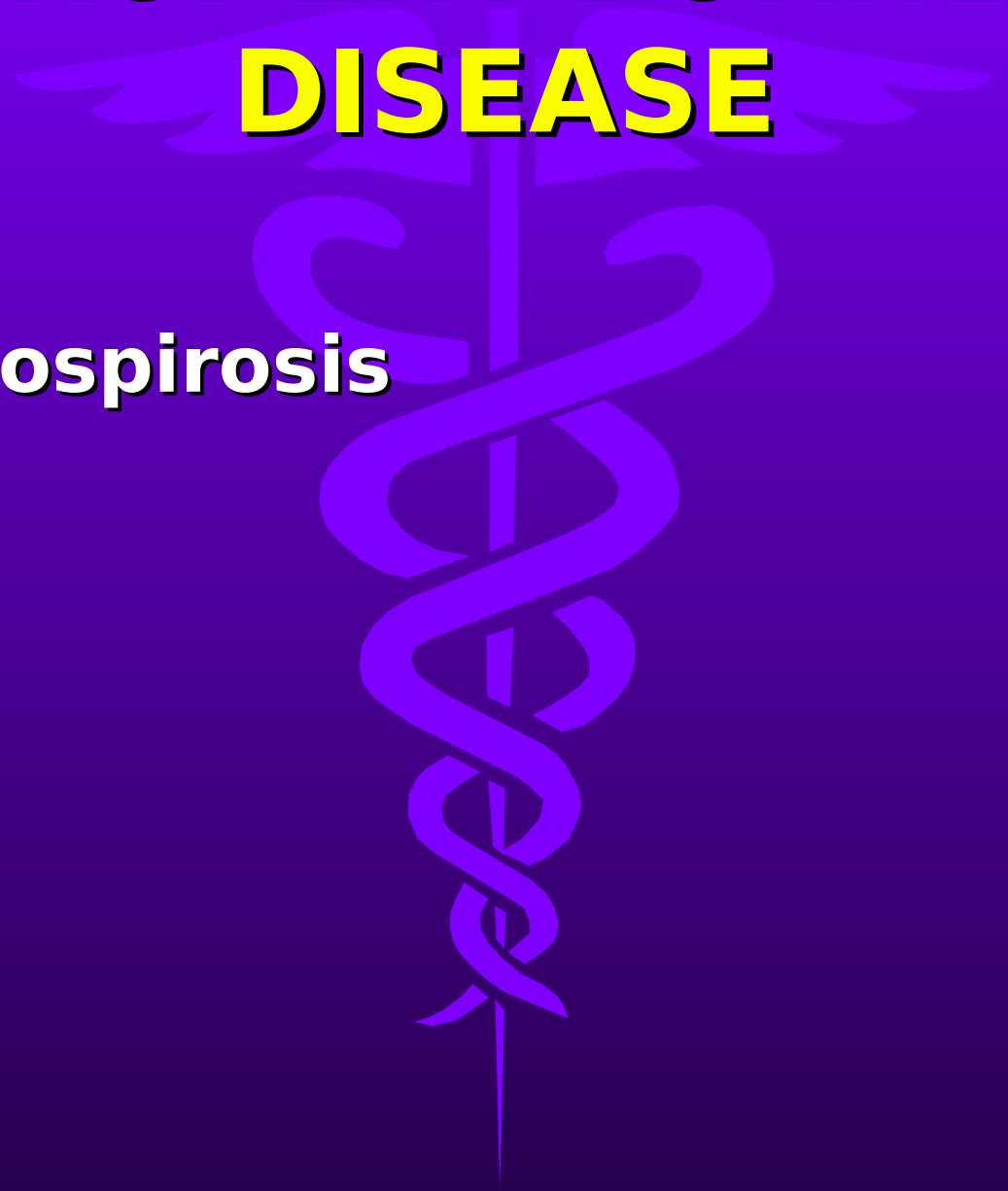
RELATION OF RODENTS TO HUMAN DISEASES

RODENT-BORNE DISEASE



- **Plague**
- **Murine typhus**
- **Leptospirosis**
- **Salmonellosis**
- **Rickettsial Pox**

RODENT-BORNE DISEASE



- **Leptospirosis**

RODENT-BORNE DISEASE



- **Salmonellosis**

RODENT-BORNE DISEASE



- **Rat-bite Fever**

RODENT-BORNE DISEASE



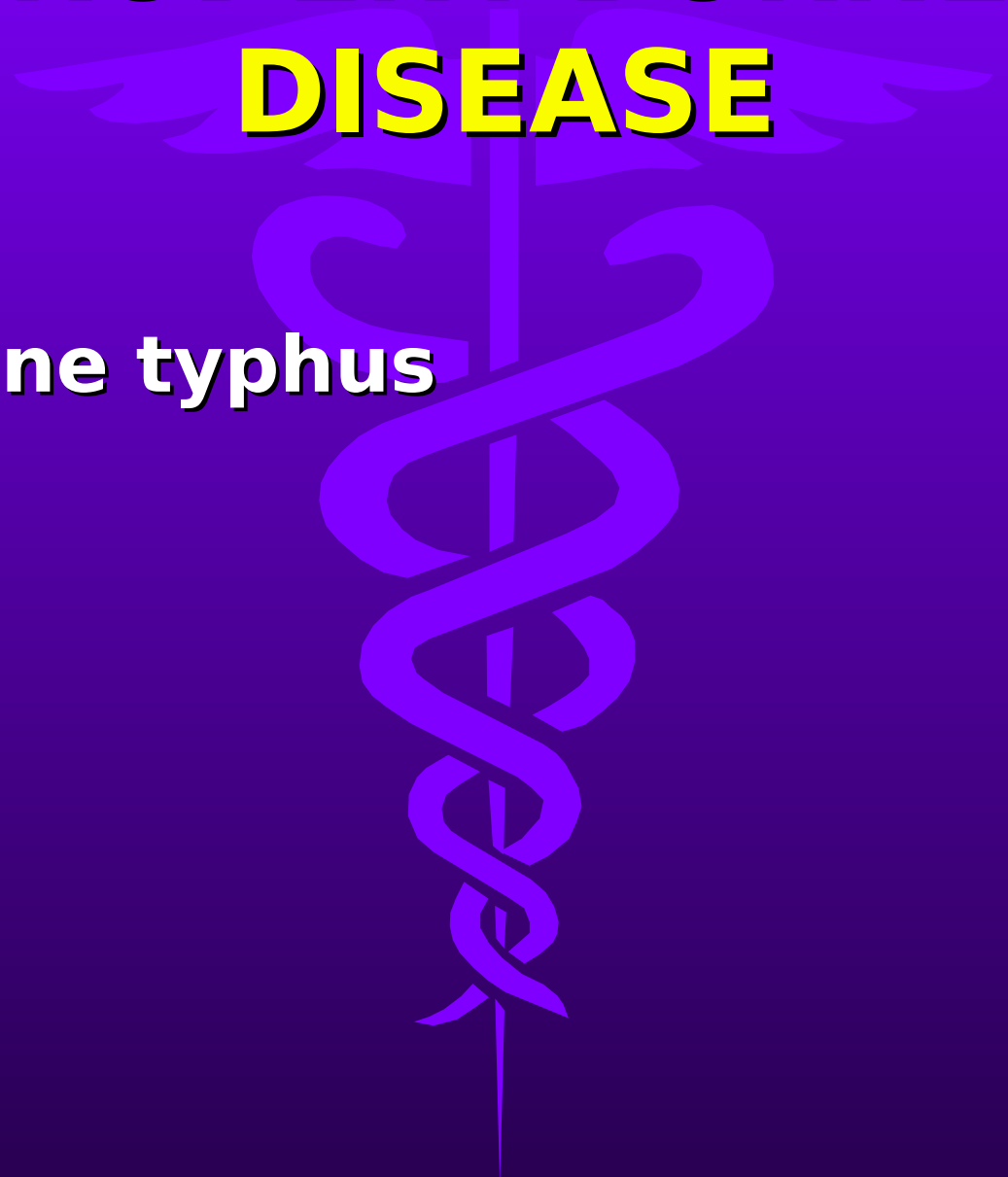
- **Flea/Mite-borne diseases**

RODENT-BORNE DISEASE



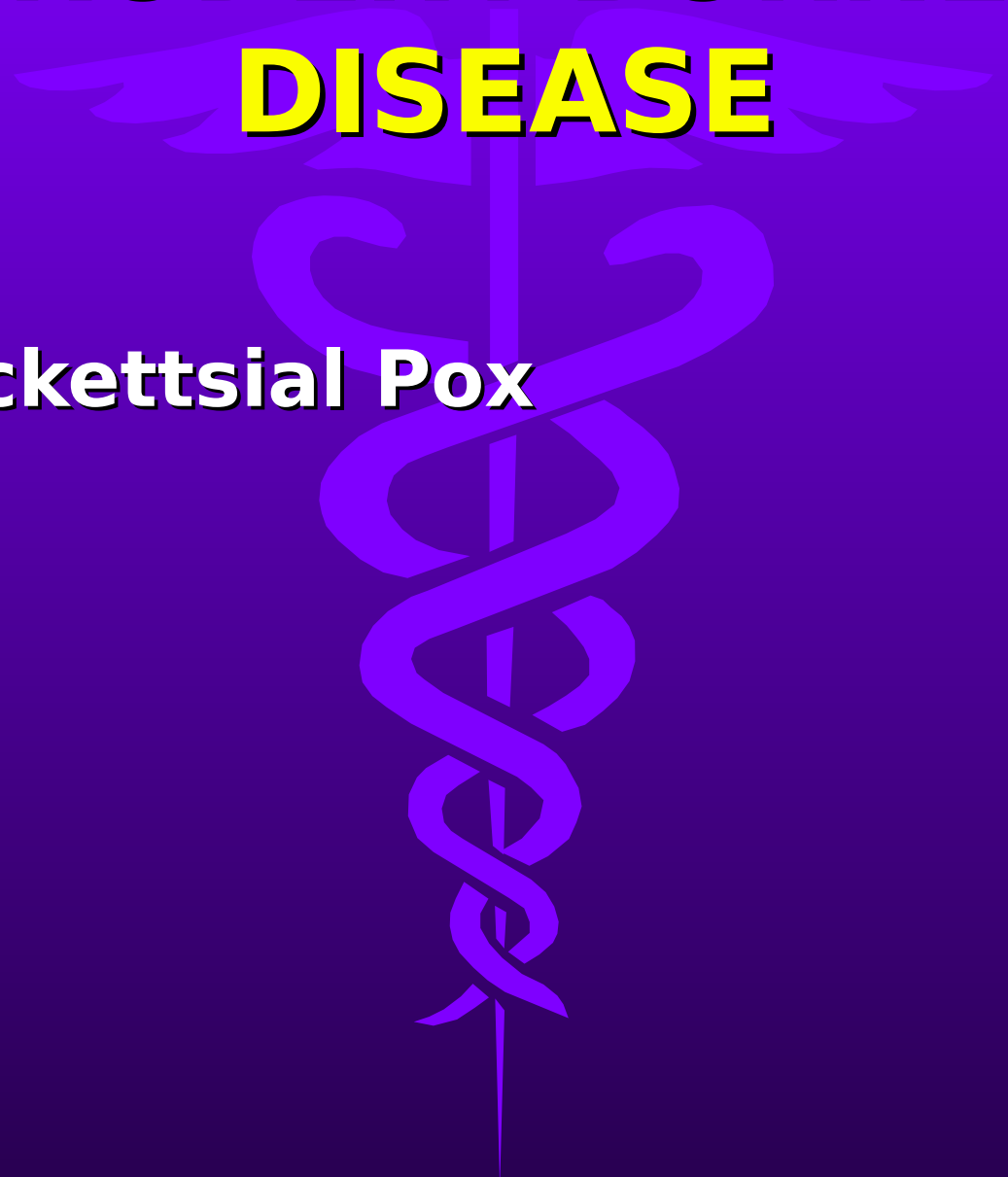
- **Plague**

RODENT-BORNE DISEASE



- Murine typhus

RODENT-BORNE DISEASE



- **Rickettsial Pox**



CONTROL MEASURES

CONTROL MEASURES

- **Rodent surveys**



CONTROL MEASURES

- **Rodent surveys**
- **Eliminate food and water**

CONTROL MEASURES

- **Rodent surveys**
- **Eliminate food and water**
- **Eliminate harborage**

NORWAY RAT FOOD AND SHELTER

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NAMEO

CONTROL MEASURES

- **Rodent surveys**
- **Eliminate food and water**
- **Eliminate harborage**
- **Rodent trapping**

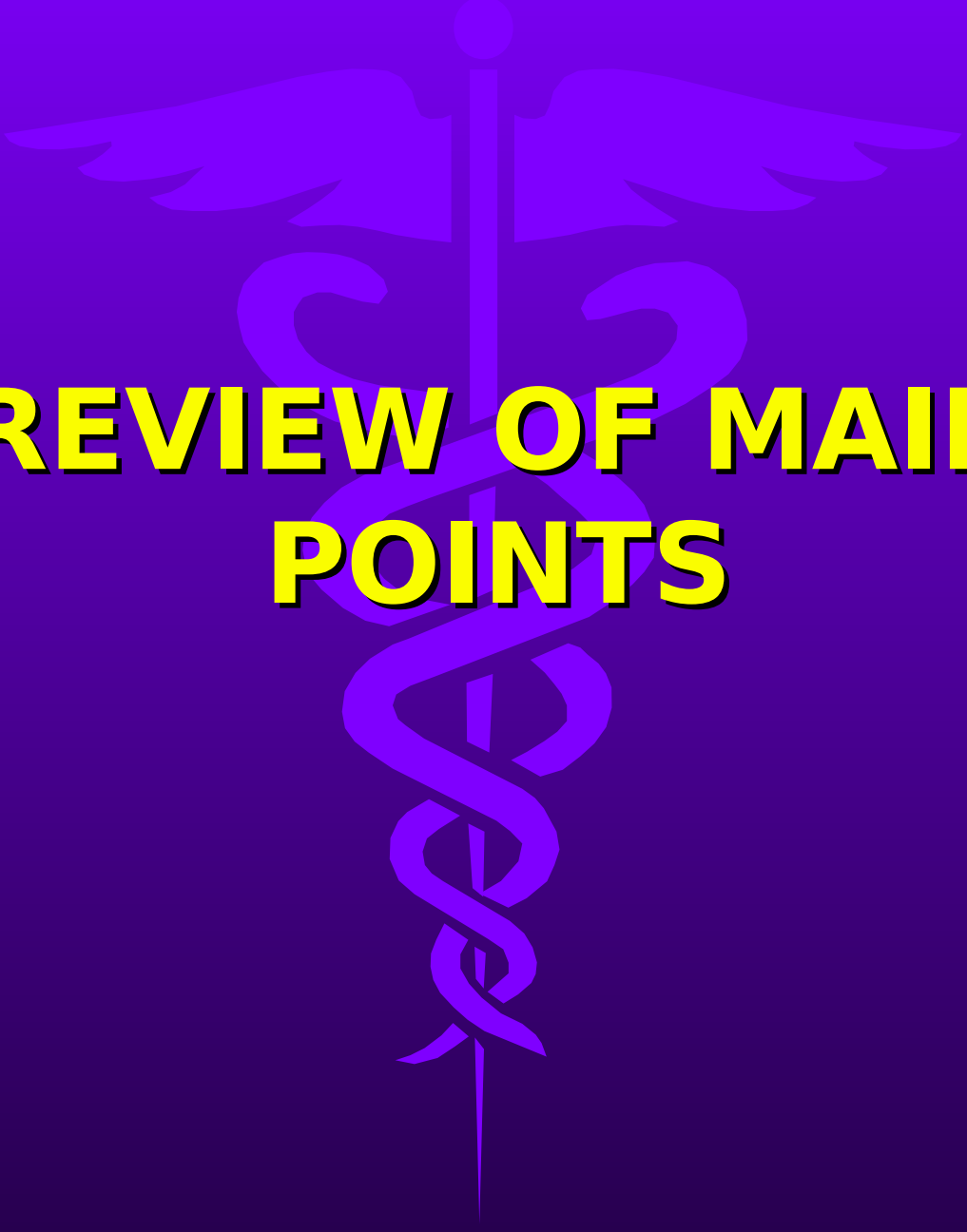


CONTROL MEASURES

- **Rodent surveys**
- **Eliminate food and water**
- **Eliminate harborage**
- **Rodent trapping**
- **Chemical control**

CONTROL MEASURES

- **Rodent surveys**
- **Eliminate food and water**
- **Eliminate harborage**
- **Rodent trapping**
- **Chemical control**
- **Bait stations**



REVIEW OF MAIN POINTS

CONTROL MEASURES

- **Rodent surveys**
- **Eliminate food and water**
- **Eliminate harborage**
- **Rodent trapping**
- **Chemical control**
- **Bait stations**